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"NECATOR AMERICANUS".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
APOPTOSIS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	12641
APOPTOSI.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	12
("NECATOR AMERICANUS" AND APOPTOSIS).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	6
("NECATOR AMERICANUS" AND "APOPTOSIS").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	6

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DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR

L1

"Necator americanus" and "apoptosis"

6

L1

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 6 of 6 returned.**☐ 1. Document ID: US 20030039666 A1

L1: Entry 1 of 6

File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030039666
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030039666 A1

TITLE: USE OF PARASITIC BIOLOGICAL AGENTS FOR PREVENTION AND CONTROL OF AUTOIMMUNE DISEASES

PUBLICATION-DATE: February 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
WEINSTOCK, JOEL V.	IOWA CITY	IA	US	
ELLIOTT, DAVID E.	IOWA CITY	IA	US	

US-CL-CURRENT: 424/234.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMMC
Draw Desc	Image										

☐ 2. Document ID: US 6537791 B1

L1: Entry 2 of 6

File: USPT

Mar 25, 2003

US-PAT-NO: 6537791
DOCUMENT-IDENTIFIER: US 6537791 B1

TITLE: Mammalian DNA-dependent ATPase a polypeptides and fusions thereof

DATE-ISSUED: March 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hockensmith; Joel W.	Charlottesville	VA		
Muthuswami; Rohini	Denver	CO		

US-CL-CURRENT: 435/196; 435/195, 536/23.2, 536/23.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMMC
Draw Desc	Image										

☐ 3. Document ID: US 6531306 B1

L1: Entry 3 of 6

File: USPT

Mar 11, 2003

US-PAT-NO: 6531306

DOCUMENT-IDENTIFIER: US 6531306 B1

TITLE: Polynucleotides encoding mammalian DNA-dependent ATPase A polypeptides

DATE-ISSUED: March 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hockensmith; Joel W.	Charlottesville	VA		
Muthuswami; Rohini	Denver	CO		

US-CL-CURRENT: 435/196; 435/252.3, 435/254.4, 435/320.1, 435/325, 435/366, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK
Draw Desc	Image										

☐ 4. Document ID: US 6180612 B1

L1: Entry 4 of 6

File: USPT

Jan 30, 2001

US-PAT-NO: 6180612

DOCUMENT-IDENTIFIER: US 6180612 B1

TITLE: Methods and compositions for targeting DNA metabolic processes using aminoglycoside derivatives

DATE-ISSUED: January 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hockensmith; Joel W.	Charlottesville	VA		
Muthuswami; Rohini	Denver	CO		

US-CL-CURRENT: 514/25; 514/39, 514/41

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RMK
Draw Desc	Image									

☐ 5. Document ID: US 5663155 A

L1: Entry 5 of 6

File: USPT

Sep 2, 1997

US-PAT-NO: 5663155

DOCUMENT-IDENTIFIER: US 5663155 A

TITLE: Compositions for the treatment of parasitic infections

DATE-ISSUED: September 2, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McCaffrey; Ronald P.	Needham	MA		
Wigzell; Hans L. R.	Hagersten			SE

US-CL-CURRENT: 514/45; 514/46, 536/27.21, 536/27.6, 536/27.61, 536/27.62, 536/27.63,
536/27.7, 536/27.8, 536/27.81

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 6. Document ID: WO 200041706 A1 EP 1140122 A1 AU 200019950 A

L1: Entry 6 of 6

File: DWPI

Jul 20, 2000

DERWENT-ACC-NO: 2000-499053

DERWENT-WEEK: 200167

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TITLE: Pro-apoptotic agents isolated from hookworm useful for treatment of cancer and inflammatory diseases, comprising excretory-secretory products capable of inducing apoptosis

INVENTOR: CHOW, S C; PRITCHARD, D I

PRIORITY-DATA: 1999GB-0000930 (January 15, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200041706 A1	July 20, 2000	E	013	A61K035/56
EP 1140122 A1	October 10, 2001	E	000	A61K035/56
AU 200019950 A	August 1, 2000		000	A61K035/56

INT-CL (IPC): A61 K 35/56; A61 P 29/00; A61 P 35/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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("NECATOR AMERICANUS" AND "APOPTOSIS").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	6

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 6 of 6 returned.****1. Document ID: US 20030039666 A1**

L1: Entry 1 of 6

File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030039666

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030039666 A1

TITLE: USE OF PARASITIC BIOLOGICAL AGENTS FOR PREVENTION AND CONTROL OF AUTOIMMUNE DISEASES

PUBLICATION-DATE: February 27, 2003

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WEINSTOCK, JOEL V.	IOWA CITY	IA	US	
ELLIOTT, DAVID E.	IOWA CITY	IA	US	

US-CL-CURRENT: 424/234.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC
Draw Desc	Image										

2. Document ID: US 6537791 B1

L1: Entry 2 of 6

File: USPT

Mar 25, 2003

US-PAT-NO: 6537791

DOCUMENT-IDENTIFIER: US 6537791 B1

TITLE: Mammalian DNA-dependent ATPase a polypeptides and fusions thereof

DATE-ISSUED: March 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hockensmith; Joel W.	Charlottesville	VA		
Muthuswami; Rohini	Denver	CO		

US-CL-CURRENT: 435/196; 435/195, 536/23.2, 536/23.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC
Draw Desc	Image										

3. Document ID: US 6531306 B1

L1: Entry 3 of 6

File: USPT

Mar 11, 2003

US-PAT-NO: 6531306

DOCUMENT-IDENTIFIER: US 6531306 B1

TITLE: Polynucleotides encoding mammalian DNA-dependent ATPase A polypeptides

DATE-ISSUED: March 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hockensmith; Joel W.	Charlottesville	VA		
Muthuswami; Rohini	Denver	CO		

US-CL-CURRENT: 435/196; 435/252.3, 435/254.4, 435/320.1, 435/325, 435/366, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMOC
Draw Desc	Image									

└ 4. Document ID: US 6180612 B1

L1: Entry 4 of 6

File: USPT

Jan 30, 2001

US-PAT-NO: 6180612

DOCUMENT-IDENTIFIER: US 6180612 B1

TITLE: Methods and compositions for targeting DNA metabolic processes using aminoglycoside derivatives

DATE-ISSUED: January 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hockensmith; Joel W.	Charlottesville	VA		
Muthuswami; Rohini	Denver	CO		

US-CL-CURRENT: 514/25; 514/39, 514/41

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMOC
Draw Desc	Image									

└ 5. Document ID: US 5663155 A

L1: Entry 5 of 6

File: USPT

Sep 2, 1997

US-PAT-NO: 5663155

DOCUMENT-IDENTIFIER: US 5663155 A

TITLE: Compositions for the treatment of parasitic infections

DATE-ISSUED: September 2, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McCaffrey; Ronald P.	Needham	MA		
Wigzell; Hans L. R.	Hagersten			SE

US-CL-CURRENT: 514/45; 514/46, 536/27.21, 536/27.6, 536/27.61, 536/27.62, 536/27.63,
536/27.7, 536/27.8, 536/27.81

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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6. Document ID: WO 200041706 A1 EP 1140122 A1 AU 200019950 A

L1: Entry 6 of 6

File: DWPI

Jul 20, 2000

DERWENT-ACC NO: 2000-499053

DERWENT-WEEK: 200167

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TITLE: Pro-apoptotic agents isolated from hookworm useful for treatment of cancer and inflammatory diseases, comprising excretory-secretory products capable of inducing apoptosis

INVENTOR: CHOW, S C; PRITCHARD, D I

PRIORITY-DATA: 1999GB-0000930 (January 15, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200041706 A1	July 20, 2000	E	013	A61K035/56
EP 1140122 A1	October 10, 2001	E	000	A61K035/56
AU 200019950 A	August 1, 2000		000	A61K035/56

INT-CL (IPC): A61 K 35/56; A61 P 29/00; A61 P 35/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Term	Documents
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APOPTOSI.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	12
("NECATOR AMERICANUS" AND APOPTOSIS).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	6
("NECATOR AMERICANUS" AND "APOPTOSIS").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	6

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1. Document ID: WO 200041706 A1 EP 1140122 A1 AU 200019950 A

L4: Entry 1 of 1

File: DWPI

Jul 20, 2000

DERWENT-ACC-NO: 2000-499053

DERWENT-WEEK: 200167

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TITLE: Pro-apoptotic agents isolated from hookworm useful for treatment of cancer and inflammatory diseases, comprising excretory-secretory products capable of inducing apoptosis

INVENTOR: CHOW, S C; PRITCHARD, D I

PRIORITY-DATA: 1999GB-0000930 (January 15, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200041706 A1	July 20, 2000	E	013	A61K035/56
EP 1140122 A1	October 10, 2001	E	000	A61K035/56
AU 200019950 A	August 1, 2000		000	A61K035/56

INT-CL (IPC): A61 K 35/56; A61 P 29/00; A61 P 35/00

Full	Title	GIT.1	REV.1	CLS.1	REF.1	SEQ.1	ATT.1
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APOPTOSI.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	12
(3 AND APOPTOSIS).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	1
(L3 AND "APOPTOSIS").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	1

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APOPTOSI.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	12
(3 AND APOPTOSIS).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	1
(L3 AND "APOPTOSIS").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	1

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<u>L4</u>	L3 and "apoptosis"	1	<u>L4</u>
<u>L3</u>	L2 and "cancer"	21	<u>L3</u>
<u>L2</u>	"Necator americanus" and "T cells"	28	<u>L2</u>
<u>L1</u>	"Necator americanus" and "apoptosis"	6	<u>L1</u>

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Term	Documents
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APOPTOSI.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	12
(3 AND APOPTOSIS).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	1
(L3 AND "APOPTOSIS").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	1

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<u>L4</u>	L3 and "apoptosis"	1	<u>L4</u>
<u>L3</u>	L2 and "cancer"	21	<u>L3</u>
<u>L2</u>	"Necator americanus" and "T cells"	28	<u>L2</u>
<u>L1</u>	"Necator americanus" and "apoptosis"	6	<u>L1</u>

END OF SEARCH HISTORY

L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 1
 AN 2000:493386 CAPLUS
 DN 133:109920
 TI Pro-apoptotic **T-cell** agents isolatable from
Necator americanus
 IN Chow, Sek Chuen; Pritchard, David Idris
 PA University of Nottingham, UK
 SO PCT Int. Appl., 13 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000041706	A1	20000720	WO 2000-GB90	20000114
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	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,				
	CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,				
	IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,				
	MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,				
	SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,				
	AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,				
	DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,				
	CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1140122	A1	20011010	EP 2000-900287	20000114
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
	IE, FI				
PRAI	GB 1999-930	A	19990115		
	WO 2000-GB90	W	20000114		
RE.CNT	4	THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD			
		ALL CITATIONS AVAILABLE IN THE RE FORMAT			

L3 ANSWER 2 OF 3 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 2
 AN 2000:149262 BIOSIS
 DN PREV200000149262
 TI The human hookworm pathogen **Necator americanus** induces
apoptosis in T lymphocytes.
 AU Chow, Sek C. (1); Brown, Alan; Pritchard, David
 CS (1) Centre for Mechanisms of Human Toxicity, University of Leicester,
 Lancaster Road, Leicester, LE1 9HN UK
 SO Parasite Immunology (Oxford)., (Jan., 2000) Vol. 22, No. 1, pp. 21-29.
 ISSN: 0141-9838.
 DT Article
 LA English
 SL English

L3 ANSWER 3 OF 3 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 1999:47025 BIOSIS
 DN PREV199900047025
 TI Decreased CD4 and increased CD8 counts with **T cell**
 activation is associated with chronic helminth infection.
 AU Kalinkovich, A.; Weisman, Z.; Greenberg, Z.; Nahmias, J.; Eitan, S.;
 Stein, M.; Bentwich, Z. (1)
 CS (1) Ben-Ari Inst. Clin. Immunol., AIDS Cent., Kaplan Med. Cent., Rehovot
 76100 Israel
 SO Clinical and Experimental Immunology, (Dec., 1998) Vol. 114, No. 3, pp.
 414-421.
 ISSN: 0009-9104.
 DT Article
 LA English

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